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Table 1. Scoring system for bloody stool

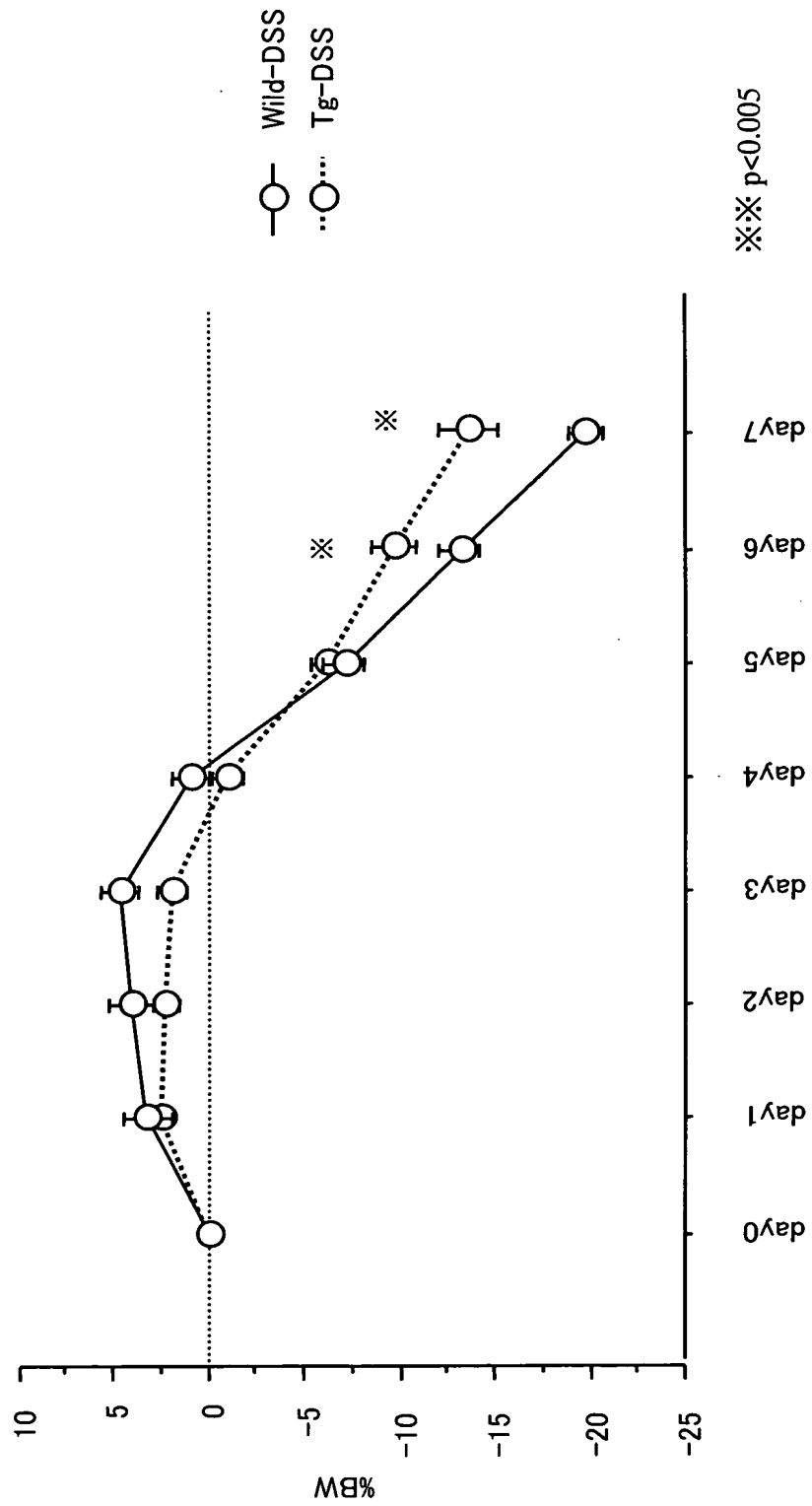| Score	Description
0	Normal to semisolid stool, no blood
1	Normal to semisolid stool, blood-tinged
2	Semisolid to fluid stool with definite evidence of blood
3	Bloody fluid

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Table 2. Histological scoring system for colitis

Feature scored	Score	Description
Inflammation severity	0	None
	1	Mild
	2	Moderate
	3	Severe
Inflammation extent	0	None
	1	Mucosa
	2	Mucosa and submucosa
	3	Transmural
Crypt damage	0	None
	1	Basal 1/3 damaged
	2	Basal 2/3 damaged
	3	Crypts lost: surface epithelium present
	4	Crypts and surface epithelium lost
Percent involcement	0	0%
	1	1%-25%
	2	26%-50%
	3	51%-75%
	4	75%-100%

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Fig. 1. Serial change of percentage body weight of the DSS model in TRX-Tg mice

Wild–DSS
Tg–DSS

※ $p < 0.005$

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Fig. 2. Colon length and bloody stool score of the DSS model in TRX-Tg mice

A *Colon length*

B *Bloody stool score*

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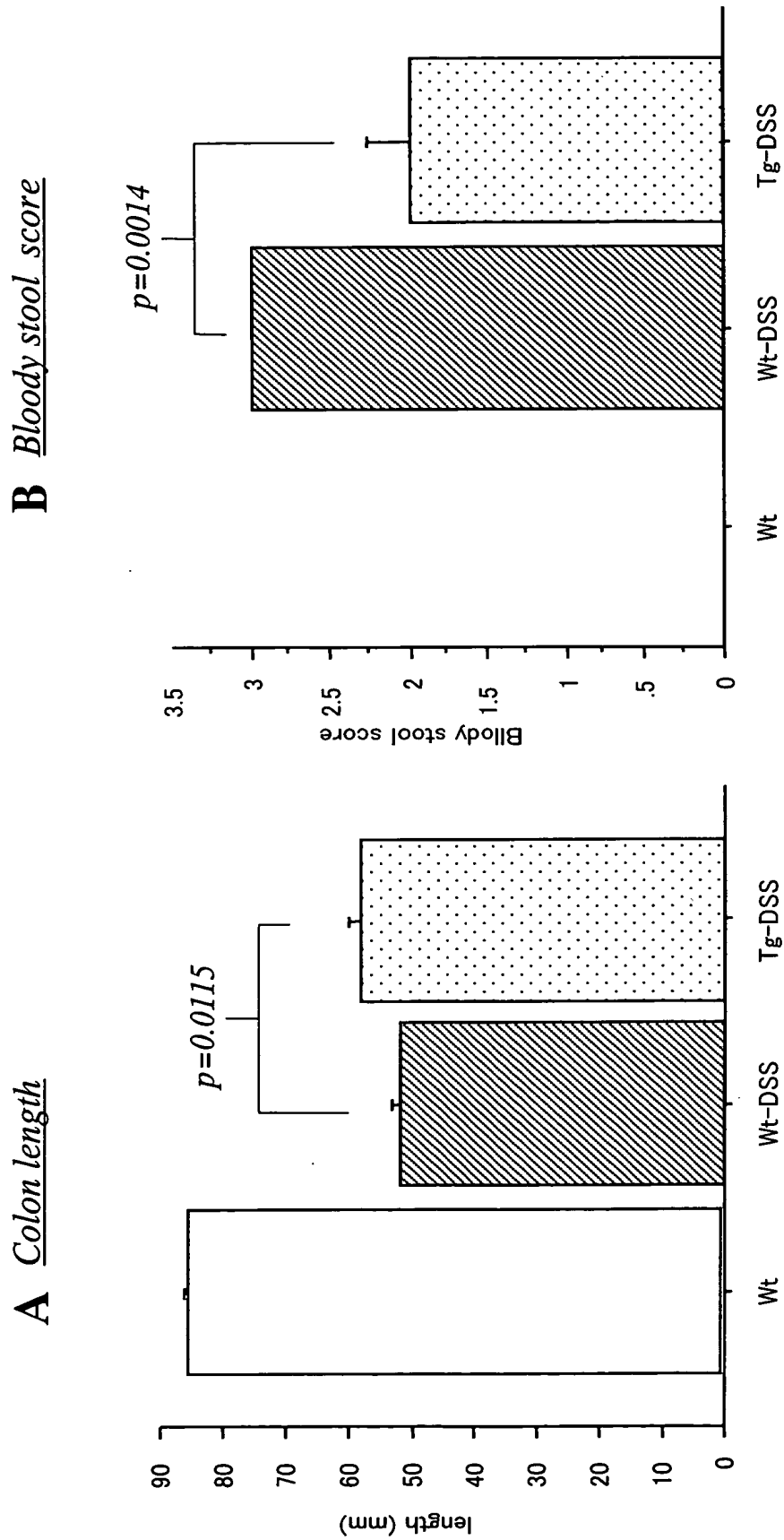
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Fig. 3. Photomicrographs of H&E-stained sections of distal colon of the DSS model in TRX-Tg mice
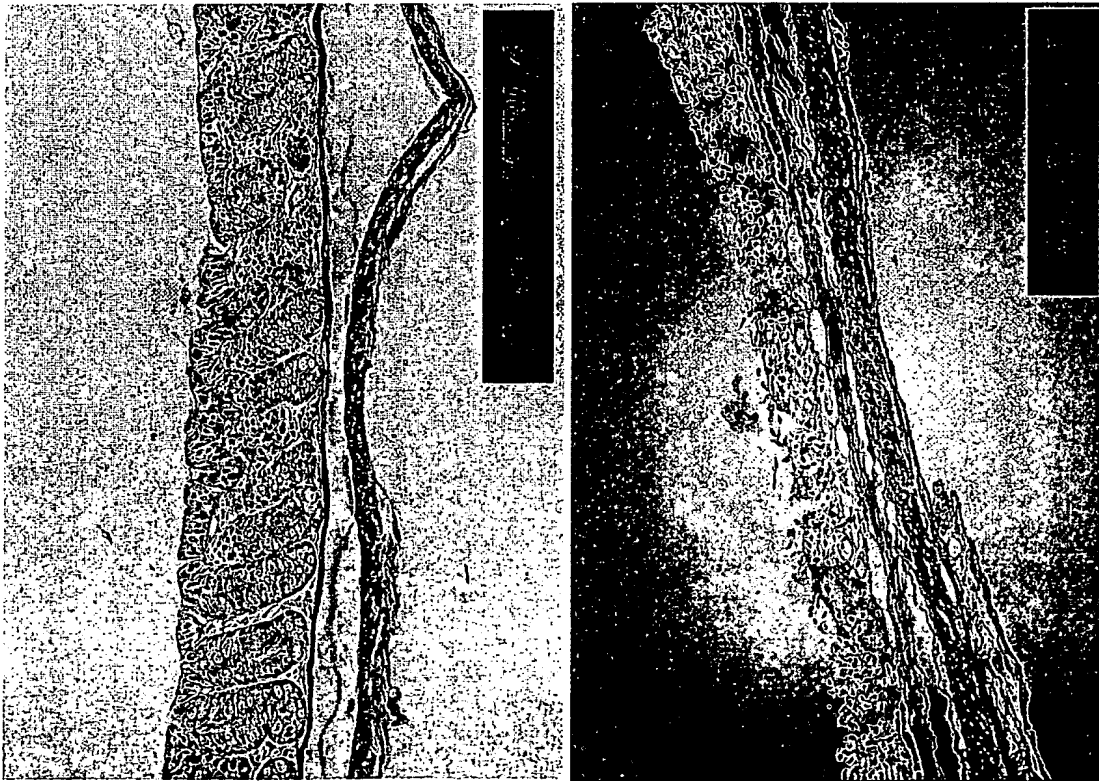
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Fig. 4-A. Histological score of the DSS model in TRX-Tg mice

Inflammation extent

Inflammation severity

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Fig. 4-B. Histological score of the DSS model in TRX-Tg mice

Total colitis

Crypt damage

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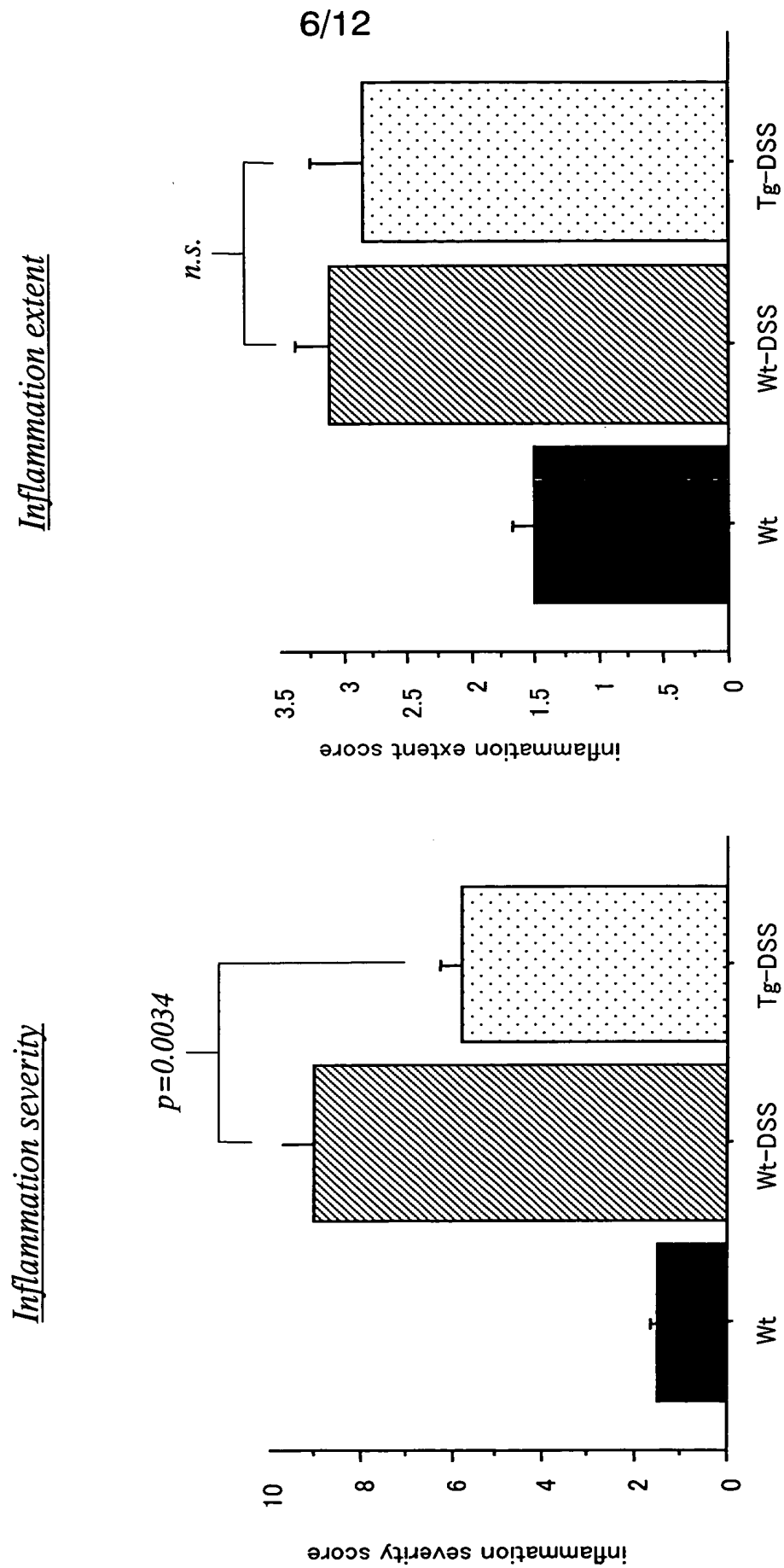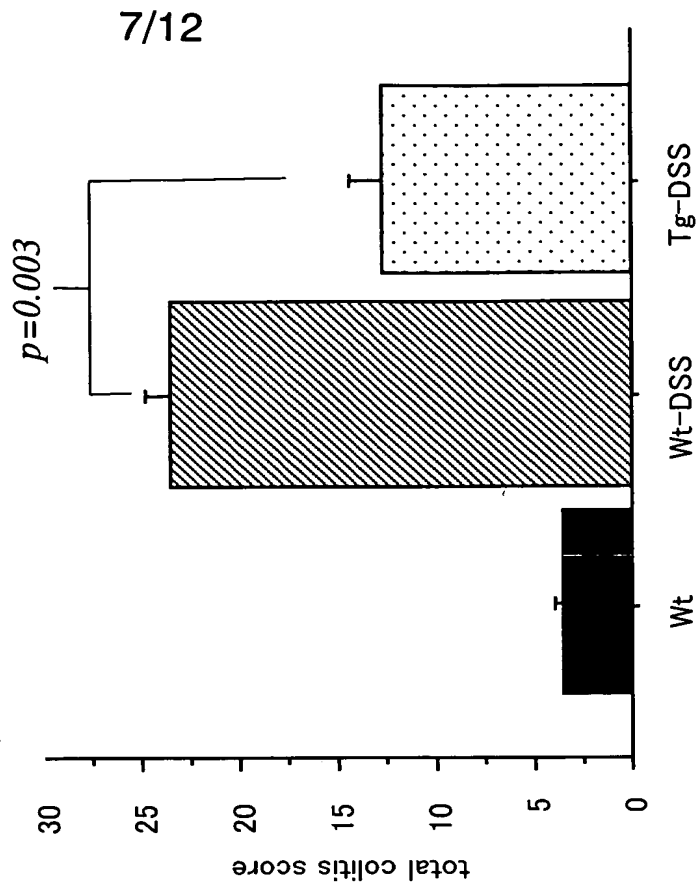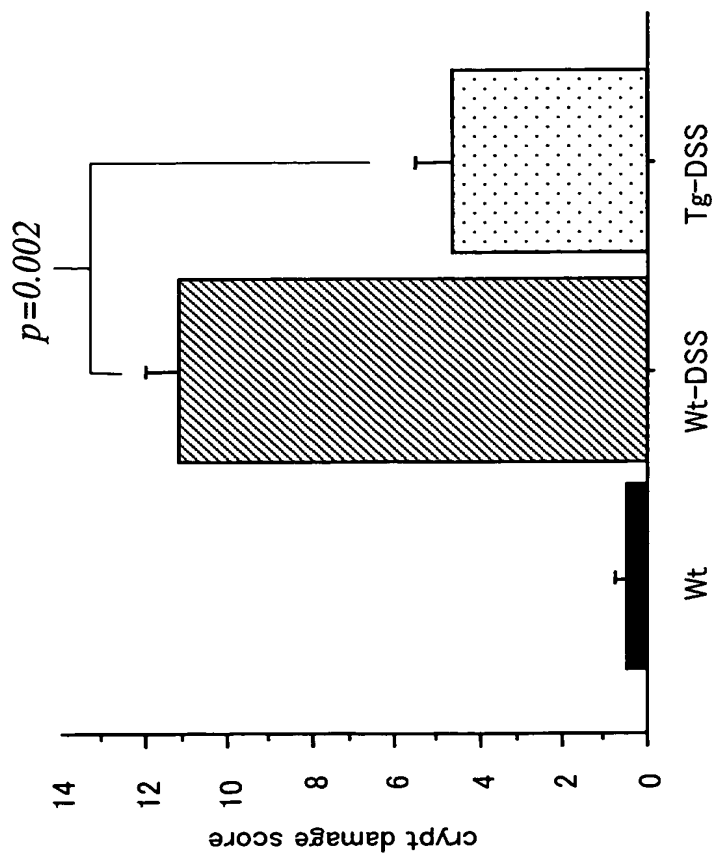
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Fig. 5. Serial change of percentage body weight of treatment protocol with human TRX (5mg/kg i.p.)

TRX100-ip
Wild-DSS

※ p<0.005

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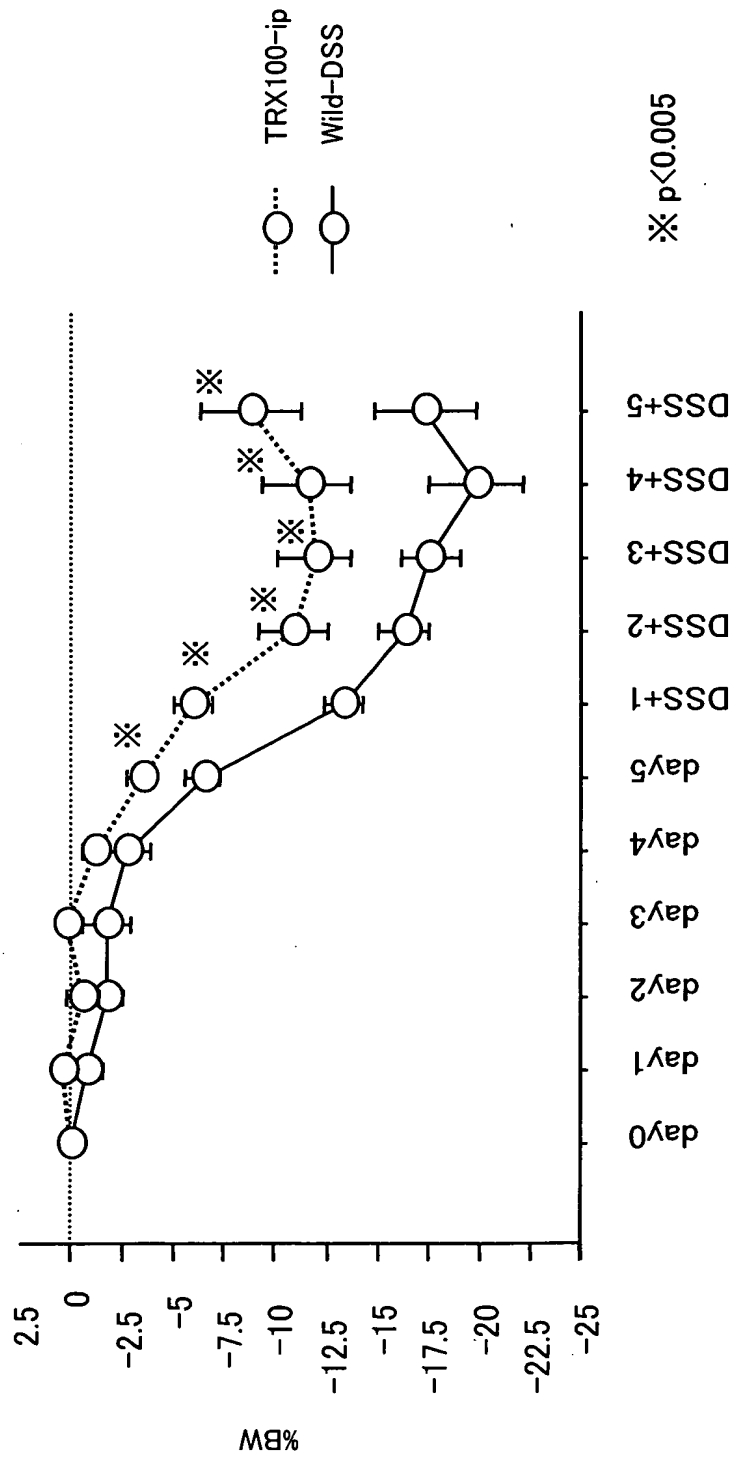
Fig. 6. Colon length of treatment protocol with human TRX (5mg/kg i.p.)

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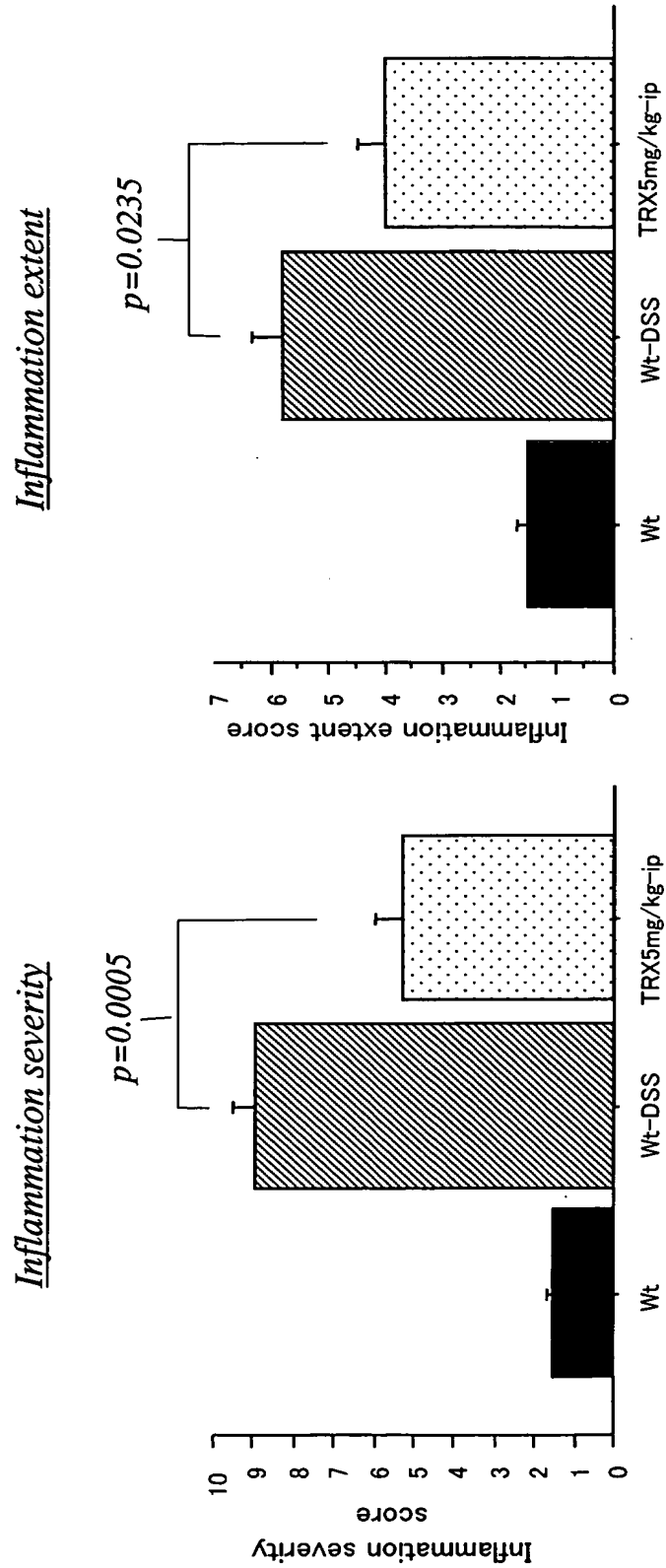Hiroyuki Tamaki, et al.
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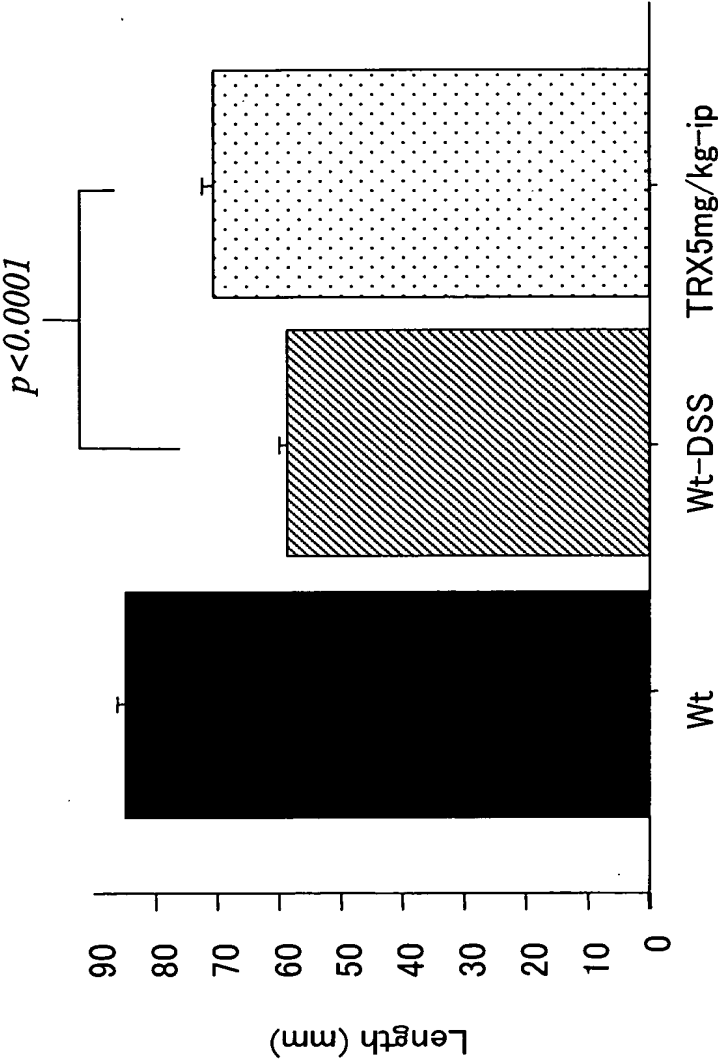
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Fig. 7. Photomicrographs of H&E-stained sections of distal colon of treatment protocol with human TRX (5mg/kg i.p.)

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Fig. 8-A. Histological score of treatment protocol with human TRX (5mg/kg i.p.)

Inflammation severity

Inflammation extent

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Fig. 8-B. Histological score of treatment protocol with human TRX (5mg/kg i.p.)

Total colitis

Crypt damage